

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	01	01	48	40		T		0.0		0.0								
2017	01	02	41	37		0.21		T		0.0								
2017	01	03	43	39		0.58		0.0		0.0								
2017	01	04	52	34		0.00		0.0		0.0								
2017	01	05	34	27		0.00		0.0		0.0								
2017	01	06	33	25		0.05		1.2		1.2								
2017	01	07	26	20		0.32		5.1		T								
2017	01	08	25	16		0.00		0.0		3.9								
2017	01	09	23	14		0.00		0.0		3.1								
2017	01	10	46	21		0.00		0.0		3.1								
2017	01	11	52	42		0.52		0.0		0.0								
2017	01	12	66	47		0.05		0.0		0.0								
2017	01	13	62	32		0.00		0.0		0.0								
2017	01	14	34	28		0.12		0.6		0.0								
2017	01	15	38	30		0.00		0.0		1.2								
2017	01	16	43	30		0.00		0.0		T								
2017	01	17	42	38		0.35		0.0		0.0								
2017	01	18	41	38		0.06		0.0		0.0								
2017	01	19	49	39		0.00		0.0		0.0								
2017	01	20	45	40		0.10		0.0		0.0								
2017	01	21	49	41		0.00		0.0		0.0								
2017	01	22	48	43		0.05		0.0		0.0								
2017	01	23	44	36		1.16		0.0		0.0								
2017	01	24	38	35		1.18		T		0.0								
2017	01	25	51	36		0.00		0.0		0.0								
2017	01	26	56	43		0.02		0.0		0.0								
2017	01	27	43	36		0.00		0.0		0.0								
2017	01	28	39	34		0.00		0.0		0.0								
2017	01	29	43	35		0.00		0.0		0.0								
2017	01	30	37	30		0.00		0.0		0.0								
2017	01	31	34	26		0.06		1.0		0.0								
Summary			43	33		4.83		7.9										

Empty, or blank, cells indicate that a data observation was not reported.

\*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Environmental Satellite, Data, and Information Service  
Current Location: Elev: 140 ft. Lat: 40.7790° N Lon: -73.9693° W  
Station: NY CITY CENTRAL PARK, NY US USW00094728

Record of Climatological Observations  
These data are quality controlled and may not be identical  
to the original observations.

National Centers for Environmental Information  
151 Patton Avenue  
Asheville, North Carolina 28801

Generated on 08/07/2018

Observation Time Temperature: Unknown Observation Time Precipitation: 2400

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	02	01	47	33		0.00		0.0		T								
2017	02	02	45	32		0.00		0.0		0.0								
2017	02	03	33	26		0.00		0.0		0.0								
2017	02	04	34	22		0.00		0.0		0.0								
2017	02	05	43	31		0.00		0.0		0.0								
2017	02	06	49	36		0.00		0.0		0.0								
2017	02	07	42	36		0.27		0.0		0.0								
2017	02	08	62	38		0.03		0.0		0.0								
2017	02	09	44	19		1.16		9.4		2.0								
2017	02	10	32	19		T		T		7.9								
2017	02	11	48	30		0.00		0.0		5.1								
2017	02	12	40	30		0.46		T		2.0								
2017	02	13	39	31		0.02		0.0		2.0								
2017	02	14	41	28		0.00		0.0		2.0								
2017	02	15	47	35		T		0.0		T								
2017	02	16	35	28		0.00		0.0		T								
2017	02	17	41	26		0.00		0.0		T								
2017	02	18	63	35		0.00		0.0		0.0								
2017	02	19	65	53		0.00		0.0		0.0								
2017	02	20	55	39		0.00		0.0		0.0								
2017	02	21	47	34		0.00		0.0		0.0								
2017	02	22	57	42		0.00		0.0		0.0								
2017	02	23	65	44		0.00		0.0		0.0								
2017	02	24	70	58		0.00		0.0		0.0								
2017	02	25	63	44		0.54		0.0		0.0								
2017	02	26	44	36		0.00		0.0		0.0								
2017	02	27	54	35		0.00		0.0		0.0								
2017	02	28	59	47		0.00		0.0		0.0								
Summary			49	35		2.48		9.4										

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Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	03	01	70	54		0.12		0.0		0.0								
2017	03	02	64	35		0.00		0.0		0.0								
2017	03	03	39	24		0.00		0.0		0.0								
2017	03	04	30	17		0.00		0.0		0.0								
2017	03	05	37	14		0.00		0.0		0.0								
2017	03	06	45	26		0.00		0.0		0.0								
2017	03	07	56	42		0.10		0.0		0.0								
2017	03	08	59	47		0.02		0.0		0.0								
2017	03	09	61	47		0.00		0.0		0.0								
2017	03	10	47	23		0.31		2.1		0.0								
2017	03	11	29	17		0.00		0.0		1.2								
2017	03	12	29	19		0.00		0.0		T								
2017	03	13	36	20		0.00		T		0.0								
2017	03	14	32	21		1.97		7.6		3.9								
2017	03	15	26	20		0.00		0.0		5.9								
2017	03	16	39	24		0.00		0.0		5.1								
2017	03	17	47	29		0.00		0.0		3.9								
2017	03	18	39	34		0.08		T		3.1								
2017	03	19	47	34		0.00		0.0		3.1								
2017	03	20	52	33		0.00		0.0		T								
2017	03	21	59	42		0.00		0.0		0.0								
2017	03	22	50	24		0.00		0.0		0.0								
2017	03	23	42	23		0.00		0.0		0.0								
2017	03	24	57	36		T		0.0		0.0								
2017	03	25	62	42		0.01		0.0		0.0								
2017	03	26	42	37		0.14		0.0		0.0								
2017	03	27	53	37		0.26		0.0		0.0								
2017	03	28	46	41		0.72		0.0		0.0								
2017	03	29	60	42		0.00		0.0		0.0								
2017	03	30	52	38		0.01		0.0		0.0								
2017	03	31	43	37		1.51		0.0		0.0								
Summary			47	32		5.25		9.7										

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Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	04	01	48	37		0.00		0.0		0.0								
2017	04	02	63	40		0.00		0.0		0.0								
2017	04	03	63	48		0.03		0.0		0.0								
2017	04	04	51	45		1.18		0.0		0.0								
2017	04	05	65	45		0.00		0.0		0.0								
2017	04	06	53	40		0.73		0.0		0.0								
2017	04	07	51	40		T		0.0		0.0								
2017	04	08	57	40		0.00		0.0		0.0								
2017	04	09	67	45		0.00		0.0		0.0								
2017	04	10	74	53		0.00		0.0		0.0								
2017	04	11	80	61		0.00		0.0		0.0								
2017	04	12	76	58		0.02		0.0		0.0								
2017	04	13	65	48		0.00		0.0		0.0								
2017	04	14	66	48		0.00		0.0		0.0								
2017	04	15	65	51		0.00		0.0		0.0								
2017	04	16	87	59		T		0.0		0.0								
2017	04	17	74	58		T		0.0		0.0								
2017	04	18	65	47		0.00		0.0		0.0								
2017	04	19	54	45		T		0.0		0.0								
2017	04	20	66	50		0.17		0.0		0.0								
2017	04	21	53	48		0.29		0.0		0.0								
2017	04	22	57	49		0.11		0.0		0.0								
2017	04	23	66	46		0.00		0.0		0.0								
2017	04	24	60	48		T		0.0		0.0								
2017	04	25	54	49		0.91		0.0		0.0								
2017	04	26	60	53		0.34		0.0		0.0								
2017	04	27	70	57		0.00		0.0		0.0								
2017	04	28	85	58		T		0.0		0.0								
2017	04	29	85	64		0.06		0.0		0.0								
2017	04	30	67	52		0.00		0.0		0.0								
Summary			65	49		3.84		0.0										

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Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	05	01	74	49		0.00		0.0		0.0								
2017	05	02	75	62		T		0.0		0.0								
2017	05	03	65	51		0.00		0.0		0.0								
2017	05	04	64	47		0.00		0.0		0.0								
2017	05	05	59	51		3.02		0.0		0.0								
2017	05	06	67	52		0.18		0.0		0.0								
2017	05	07	56	47		0.01		0.0		0.0								
2017	05	08	57	44		0.00		0.0		0.0								
2017	05	09	63	47		0.00		0.0		0.0								
2017	05	10	63	49		0.00		0.0		0.0								
2017	05	11	62	51		0.00		0.0		0.0								
2017	05	12	65	48		0.00		0.0		0.0								
2017	05	13	53	45		1.61		0.0		0.0								
2017	05	14	67	46		0.02		0.0		0.0								
2017	05	15	68	53		0.00		0.0		0.0								
2017	05	16	79	56		0.00		0.0		0.0								
2017	05	17	90	65		0.00		0.0		0.0								
2017	05	18	92	75		0.00		0.0		0.0								
2017	05	19	91	66		0.00		0.0		0.0								
2017	05	20	65	55		0.01		0.0		0.0								
2017	05	21	69	52		0.00		0.0		0.0								
2017	05	22	61	53		0.59		0.0		0.0								
2017	05	23	69	56		0.00		0.0		0.0								
2017	05	24	69	56		0.04		0.0		0.0								
2017	05	25	59	56		0.58		0.0		0.0								
2017	05	26	73	56		0.10		0.0		0.0								
2017	05	27	71	59		0.00		0.0		0.0								
2017	05	28	71	58		0.00		0.0		0.0								
2017	05	29	61	56		0.13		0.0		0.0								
2017	05	30	60	55		0.06		0.0		0.0								
2017	05	31	75	58		0.03		0.0		0.0								
Summary			68	54		6.38		0.0										

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			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	06	01	79	59		T		0.0		0.0								
2017	06	02	76	57		0.01		0.0		0.0								
2017	06	03	73	55		0.01		0.0		0.0								
2017	06	04	70	56		0.09		0.0		0.0								
2017	06	05	67	58		0.02		0.0		0.0								
2017	06	06	58	52		0.06		0.0		0.0								
2017	06	07	67	51		0.00		0.0		0.0								
2017	06	08	69	55		0.00		0.0		0.0								
2017	06	09	80	53		0.00		0.0		0.0								
2017	06	10	85	66		0.00		0.0		0.0								
2017	06	11	90	72		0.00		0.0		0.0								
2017	06	12	93	76		0.00		0.0		0.0								
2017	06	13	94	77		T		0.0		0.0								
2017	06	14	84	69		0.29		0.0		0.0								
2017	06	15	76	64		0.00		0.0		0.0								
2017	06	16	68	63		0.00		0.0		0.0								
2017	06	17	74	66		1.39		0.0		0.0								
2017	06	18	85	70		T		0.0		0.0								
2017	06	19	88	70		1.35		0.0		0.0								
2017	06	20	83	71		0.03		0.0		0.0								
2017	06	21	83	71		0.00		0.0		0.0								
2017	06	22	83	68		0.00		0.0		0.0								
2017	06	23	83	76		0.04		0.0		0.0								
2017	06	24	84	71		1.29		0.0		0.0								
2017	06	25	83	68		0.00		0.0		0.0								
2017	06	26	79	64		0.00		0.0		0.0								
2017	06	27	77	60		0.18		0.0		0.0								
2017	06	28	78	61		0.00		0.0		0.0								
2017	06	29	82	68		0.00		0.0		0.0								
2017	06	30	88	73		T		0.0		0.0								
Summary			79	65		4.76		0.0										

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Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	07	01	85	71		0.23		0.0		0.0								
2017	07	02	87	72		0.00		0.0		0.0								
2017	07	03	88	71		0.45		0.0		0.0								
2017	07	04	85	70		0.00		0.0		0.0								
2017	07	05	85	70		0.00		0.0		0.0								
2017	07	06	77	71		T		0.0		0.0								
2017	07	07	80	68		1.78		0.0		0.0								
2017	07	08	84	69		0.00		0.0		0.0								
2017	07	09	81	67		0.00		0.0		0.0								
2017	07	10	84	68		0.00		0.0		0.0								
2017	07	11	85	75		0.00		0.0		0.0								
2017	07	12	88	77		0.00		0.0		0.0								
2017	07	13	90	73		T		0.0		0.0								
2017	07	14	73	65		0.35		0.0		0.0								
2017	07	15	84	68		0.00		0.0		0.0								
2017	07	16	87	68		0.00		0.0		0.0								
2017	07	17	85	73		0.00		0.0		0.0								
2017	07	18	88	73		0.00		0.0		0.0								
2017	07	19	92	77		0.00		0.0		0.0								
2017	07	20	94	77		0.01		0.0		0.0								
2017	07	21	92	76		0.00		0.0		0.0								
2017	07	22	92	71		0.57		0.0		0.0								
2017	07	23	79	71		0.06		0.0		0.0								
2017	07	24	73	63		0.74		0.0		0.0								
2017	07	25	71	62		0.00		0.0		0.0								
2017	07	26	77	65		0.00		0.0		0.0								
2017	07	27	78	65		T		0.0		0.0								
2017	07	28	85	71		0.00		0.0		0.0								
2017	07	29	77	67		0.00		0.0		0.0								
2017	07	30	82	64		0.00		0.0		0.0								
2017	07	31	88	66		0.00		0.0		0.0								
Summary			84	70		4.19		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

\*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

Record of Climatological Observations  
These data are quality controlled and may not be identical  
to the original observations.

Generated on 08/07/2018

Observation Time Temperature: Unknown Observation Time Precipitation: 2400

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	08	01	92	71		0.00		0.0		0.0								
2017	08	02	86	69		0.09		0.0		0.0								
2017	08	03	87	68		0.00		0.0		0.0								
2017	08	04	84	69		0.15		0.0		0.0								
2017	08	05	78	69		0.30		0.0		0.0								
2017	08	06	76	64		0.00		0.0		0.0								
2017	08	07	71	64		0.76		0.0		0.0								
2017	08	08	78	65		0.00		0.0		0.0								
2017	08	09	85	64		0.00		0.0		0.0								
2017	08	10	83	68		0.00		0.0		0.0								
2017	08	11	82	69		T		0.0		0.0								
2017	08	12	77	64		0.11		0.0		0.0								
2017	08	13	83	71		0.00		0.0		0.0								
2017	08	14	80	70		0.00		0.0		0.0								
2017	08	15	74	68		0.45		0.0		0.0								
2017	08	16	87	70		0.00		0.0		0.0								
2017	08	17	83	69		0.00		0.0		0.0								
2017	08	18	82	73		0.88		0.0		0.0								
2017	08	19	86	73		0.00		0.0		0.0								
2017	08	20	81	69		0.00		0.0		0.0								
2017	08	21	87	71		0.00		0.0		0.0								
2017	08	22	89	72		0.30		0.0		0.0								
2017	08	23	81	70		T		0.0		0.0								
2017	08	24	80	65		0.00		0.0		0.0								
2017	08	25	78	63		0.00		0.0		0.0								
2017	08	26	78	62		0.00		0.0		0.0								
2017	08	27	78	63		0.00		0.0		0.0								
2017	08	28	76	63		0.00		0.0		0.0								
2017	08	29	68	61		0.29		0.0		0.0								
2017	08	30	78	60		0.01		0.0		0.0								
2017	08	31	81	64		0.00		0.0		0.0								
Summary			81	67		3.34		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

\*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Environmental Satellite, Data, and Information Service  
Current Location: Elev: 140 ft. Lat: 40.7790° N Lon: -73.9693° W  
Station: NY CITY CENTRAL PARK, NY US USW00094728

Record of Climatological Observations  
These data are quality controlled and may not be identical  
to the original observations.

National Centers for Environmental Information  
151 Patton Avenue  
Asheville, North Carolina 28801

Generated on 08/07/2018

Observation Time Temperature: Unknown Observation Time Precipitation: 2400

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	09	01	71	55		0.00		0.0		0.0								
2017	09	02	68	54		0.53		0.0		0.0								
2017	09	03	69	59		0.74		0.0		0.0								
2017	09	04	80	61		0.00		0.0		0.0								
2017	09	05	85	69		T		0.0		0.0								
2017	09	06	72	61		0.42		0.0		0.0								
2017	09	07	71	59		0.01		0.0		0.0								
2017	09	08	71	58		0.00		0.0		0.0								
2017	09	09	70	55		0.00		0.0		0.0								
2017	09	10	72	57		0.00		0.0		0.0								
2017	09	11	76	55		0.00		0.0		0.0								
2017	09	12	78	59		0.00		0.0		0.0								
2017	09	13	83	64		0.06		0.0		0.0								
2017	09	14	81	70		0.02		0.0		0.0								
2017	09	15	81	67		0.00		0.0		0.0								
2017	09	16	82	70		0.00		0.0		0.0								
2017	09	17	81	68		0.00		0.0		0.0								
2017	09	18	73	68		0.00		0.0		0.0								
2017	09	19	78	69		0.22		0.0		0.0								
2017	09	20	79	71		0.00		0.0		0.0								
2017	09	21	80	71		0.00		0.0		0.0								
2017	09	22	82	66		0.00		0.0		0.0								
2017	09	23	87	68		0.00		0.0		0.0								
2017	09	24	91	69		0.00		0.0		0.0								
2017	09	25	88	70		0.00		0.0		0.0								
2017	09	26	84	68		0.00		0.0		0.0								
2017	09	27	87	69		0.00		0.0		0.0								
2017	09	28	79	59		0.00		0.0		0.0								
2017	09	29	68	55		0.00		0.0		0.0								
2017	09	30	66	54		0.00		0.0		0.0								
Summary			78	63		2.00		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

\*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	10	01	68	50		0.00		0.0		0.0								
2017	10	02	73	52		0.00		0.0		0.0								
2017	10	03	71	57		0.00		0.0		0.0								
2017	10	04	75	56		0.00		0.0		0.0								
2017	10	05	83	65		T		0.0		0.0								
2017	10	06	82	68		0.00		0.0		0.0								
2017	10	07	81	66		0.00		0.0		0.0								
2017	10	08	77	72		0.22		0.0		0.0								
2017	10	09	77	71		0.26		0.0		0.0								
2017	10	10	81	66		0.00		0.0		0.0								
2017	10	11	77	60		0.06		0.0		0.0								
2017	10	12	64	55		0.07		0.0		0.0								
2017	10	13	67	52		0.00		0.0		0.0								
2017	10	14	72	61		0.08		0.0		0.0								
2017	10	15	74	65		0.00		0.0		0.0								
2017	10	16	69	46		0.01		0.0		0.0								
2017	10	17	58	42		0.00		0.0		0.0								
2017	10	18	72	50		0.00		0.0		0.0								
2017	10	19	71	56		0.00		0.0		0.0								
2017	10	20	73	57		0.00		0.0		0.0								
2017	10	21	78	56		0.00		0.0		0.0								
2017	10	22	76	57		0.00		0.0		0.0								
2017	10	23	74	61		0.00		0.0		0.0								
2017	10	24	74	67		0.20		0.0		0.0								
2017	10	25	67	57		0.00		0.0		0.0								
2017	10	26	58	50		0.00		0.0		0.0								
2017	10	27	62	47		0.00		0.0		0.0								
2017	10	28	69	55		0.00		0.0		0.0								
2017	10	29	67	60		3.03		0.0		0.0								
2017	10	30	61	46		0.25		0.0		0.0								
2017	10	31	57	45		0.00		0.0		0.0								
Summary			71	57		4.18		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

\*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	11	01	59	43		0.00		0.0		0.0								
2017	11	02	72	58		0.00		0.0		0.0								
2017	11	03	74	51		0.00		0.0		0.0								
2017	11	04	56	46		0.00		0.0		0.0								
2017	11	05	61	51		0.02		0.0		0.0								
2017	11	06	66	46		0.01		0.0		0.0								
2017	11	07	49	40		0.70		0.0		0.0								
2017	11	08	49	39		0.00		0.0		0.0								
2017	11	09	55	39		T		0.0		0.0								
2017	11	10	51	25		0.01		0.0		0.0								
2017	11	11	38	24		0.00		0.0		0.0								
2017	11	12	46	32		0.00		0.0		0.0								
2017	11	13	47	39		0.07		0.0		0.0								
2017	11	14	48	35		0.00		0.0		0.0								
2017	11	15	51	37		0.00		0.0		0.0								
2017	11	16	57	43		0.20		0.0		0.0								
2017	11	17	47	37		0.00		0.0		0.0								
2017	11	18	56	34		0.10		0.0		0.0								
2017	11	19	59	38		0.23		0.0		0.0								
2017	11	20	47	36		T		T		0.0								
2017	11	21	58	42		0.00		0.0		0.0								
2017	11	22	56	35		0.21		0.0		0.0								
2017	11	23	43	31		0.00		0.0		0.0								
2017	11	24	50	35		0.00		0.0		0.0								
2017	11	25	57	43		0.00		0.0		0.0								
2017	11	26	51	40		0.00		0.0		0.0								
2017	11	27	51	39		0.00		0.0		0.0								
2017	11	28	54	36		0.00		0.0		0.0								
2017	11	29	63	42		0.00		0.0		0.0								
2017	11	30	53	38		0.03		0.0		0.0								
Summary			54	39		1.58		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

\*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag				Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2017	12	01	52	42		0.00		0.0		0.0								
2017	12	02	48	39		0.00		0.0		0.0								
2017	12	03	48	42		0.00		0.0		0.0								
2017	12	04	51	40		0.00		0.0		0.0								
2017	12	05	61	50		0.75		0.0		0.0								
2017	12	06	59	40		0.00		0.0		0.0								
2017	12	07	44	37		0.00		0.0		0.0								
2017	12	08	39	34		0.00		0.0		0.0								
2017	12	09	35	30		0.46		4.6		0.0								
2017	12	10	39	29		0.00		0.0		3.9								
2017	12	11	41	33		0.00		0.0		2.0								
2017	12	12	50	29		T		T		T								
2017	12	13	31	20		0.00		T		0.0								
2017	12	14	32	22		0.09		1.2		1.2								
2017	12	15	28	20		0.11		1.2		1.2								
2017	12	16	39	23		0.00		0.0		2.0								
2017	12	17	38	32		0.00		0.0		1.2								
2017	12	18	47	34		0.02		0.0		T								
2017	12	19	55	45		0.00		0.0		0.0								
2017	12	20	51	34		0.00		0.0		0.0								
2017	12	21	39	32		0.00		0.0		0.0								
2017	12	22	50	35		0.00		0.0		0.0								
2017	12	23	48	38		0.49		0.0		0.0								
2017	12	24	41	36		0.01		T		0.0								
2017	12	25	38	28		0.23		T		0.0								
2017	12	26	28	23		0.00		0.0		0.0								
2017	12	27	24	17		0.00		0.0		0.0								
2017	12	28	18	11		0.00		0.0		0.0								
2017	12	29	22	11		0.00		0.0		0.0								
2017	12	30	23	17		0.05		0.7		0.0								
2017	12	31	21	9		0.00		0.0		T								
Summary			40	30		2.21		7.7										

Empty, or blank, cells indicate that a data observation was not reported.

\*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

## GHCN (Global Historical Climatology Network) – Daily Documentation

**NOTE: English units are displayed on pdf output format; Either Metric or standard English units on csv or txt output formats depending on user specification.**

### **I. Description**

GHCN (Global Historical Climatology Network)-Daily is a database that addresses the critical need for historical daily temperature, precipitation, and snow records over global land areas. GHCN-Daily is a composite of climate records from numerous sources that were merged and then subjected to a suite of quality assurance reviews. The archive includes over 40 meteorological elements (see Table 4 below for complete list) including temperature daily maximum/minimum, temperature at observation time, precipitation, snowfall, snow depth, evaporation, wind movement, wind maximums, soil temperature, cloudiness, and more.

GHCN-Daily will serve as a replacement product for older NCDC-maintained data sets that are designated for daily temporal resolution (i.e. DSI 3200, DSI 3201, DSI 3202, DSI 3205, DSI 3206, DSI 3208, DSI 3210, etc.). It will function as the official archive for daily data from the Global Climate Observing System (GCOS) Surface Network (GSN) and is particularly well suited for monitoring and assessment activities related to the frequency and magnitude of extremes. Containing observations of one or more of the above elements at more than 100,000 stations that are distributed across all continents, the dataset is the world's largest collection of daily climatological data. The total of 1.4 billion data values includes 250 million values each for maximum and minimum temperatures, 500 million precipitation totals, and 200 million observations each for snowfall and snow depth. Station records, some of which extend back to the 19th century, are updated daily where possible and are usually available one to two days after the date and time of the observation.

Some of the data provided here are based on data exchanged under the World Meteorological Organization (WMO) World Weather Watch Program according to WMO Resolution 40 (Cg-XII). This allows WMO member countries to place restrictions on the use or re-export of their data for commercial purposes outside of the receiving country. Those countries' data summaries and products which are available here are intended for free and unrestricted use in research, education, and other non-commercial activities. For non-U.S. locations data, the data or any derived product shall not be provided to other users or be used for the re-export of commercial services.

### **II. Format/Observation Definitions**

(note: the term 'element' or 'value' is used throughout this documentation and refers to an individual meteorological/climatological measurement or statistical value such as temperature, precipitation (amount), etc.)

Users are given the choice between the following two delivery formats:

- 1) GHCN-Daily Form - Portable Document Format (PDF) output giving 5 core values (see Table 4) and, if available, the following additional values: TOBS (temperature at the time of observation), EVAP (evaporation of water from evaporation pan), WDMV (24-hour wind movement), SN\*# (minimum soil temperature) and SX\*# (maximum soil temperature). More details about these values are in Table 4 (below). There are no flags (attributes) given with the GHCN- Daily Form pdf file other than measurement flag “T” (trace value for precipitation, snowfall or snow depth, as per table 3 below). Units for data values can be in metric or standard depending on user preference for both CSV and text output. Empty, or blank, cells indicate that a data observation was not reported.
- 2) Custom GHCN-Daily CSV- Output files contain .csv extension and optimized for spreadsheet usage (i.e. delimited file). Besides unit preference, user is also given the choice whether to include flags, station name or geographic location in data request. The user can define which of the elements listed in Table 4 (below) to include in the data request.
- 3) Custom GHCN-Daily ASCII Form-Output is ASCII text file and the user is given the choice whether to include flags, station name or geographic location in data request. The user can define which of the elements listed in Table 4 (below) to include in the data request.

#### **A. Data observations (values)**

Each record represents all selected observations (values) available for a given station-day. The initial section of each record is ordered as follows with the following definitions:

**STATION** (17 characters) is the station identification code. Please see

<http://www1.ncdc.noaa.gov/pub/data/ghcn/daily/ghcnd-stations.txt>

for a complete list of stations and their metadata.

**STATION\_NAME** (max 50 characters) is the name of the station (usually city/airport name). Optional output field.

**GEOGRAPHIC\_LOCATION** (31 characters) is the latitude (decimated degrees w/northern hemisphere values > 0, southern hemisphere values < 0), longitude (decimated degrees w/western hemisphere values < 0, eastern hemisphere values > 0) and elevation above mean sea level (tenths of meters). This is an optional output field.

**DATE** is the year of the record (4 digits) followed by month (2 digits) and day (2 digits).

#### **B. Observations (values) and flags (attributes)**

Following this initial section of the record, all selected observations and flags are given in the following order:

Observation(s) | Measurement Flag | Quality Flag | Source Flag | Time of Observation | repeat for next element (when more than one element is selected), where:

**Observation(s)** is/are defined in Table 4 below. 9's in a field (e.g.9999) indicate missing data or data that has not been received.

**Measurement Flag (attribute)** is defined in **Table 1** below

**Quality Flag (attribute)** is defined in **Table 2** below

**Source Flag (attribute)** is defined in **Table 3** below

**Time of Observation** is the (2 digit hour, 2 digit minute) 24 hour clock time of the observation given as the local time at the station of record.

Note: The 4 flags listed above are optional on the Custom GHCN-Daily ASCII Form.

**Table 1 (Measurement Flag/Attribute)**

Blank = no measurement information applicable

- A = value in precipitation or snow is a multi-day total, accumulated since last measurement  
(used on Daily Form pdf file)
- B = precipitation total formed from two twelve-hour totals
- D = precipitation total formed from four six-hour totals
- H = represents highest or lowest hourly temperature (TMAX or TMIN)  
or average of hourly values (TAVG)
- K = converted from knots
- L = temperature appears to be lagged with respect to reported  
hour of observation
- O = converted from oktas
- P = identified as "missing presumed zero" in DSI 3200 and 3206
- T = trace of precipitation, snowfall, or snow depth
- W = converted from 16-point WBAN code (for wind direction)

**Table 2 (Quality Flag/Attribute)**

Blank = did not fail any quality assurance check

- D = failed duplicate check
- G = failed gap check
- I = failed internal consistency check
- K = failed streak/frequent-value check
- L = failed check on length of multiday period
- M = failed mega-consistency check
- N = failed naught check
- O = failed climatological outlier check
- R = failed lagged range check

- S = failed spatial consistency check
- T = failed temporal consistency check
- W = temperature too warm for snow
- X = failed bounds check
- Z = flagged as a result of an official Datzilla investigation

**Table 3 (Source Flag/Attribute)**

Blank = No source (i.e., data value missing)

- 0 = U.S. Cooperative Summary of the Day (NCDC DSI-3200)
  - 6 = CDMP Cooperative Summary of the Day (NCDC DSI-3206)
  - 7 = U.S. Cooperative Summary of the Day -- Transmitted via WxCoder3 (NCDC DSI-3207)
  - A = U.S. Automated Surface Observing System (ASOS) real-time data (since January 1, 2006)
  - a = Australian data from the Australian Bureau of Meteorology
  - B = U.S. ASOS data for October 2000-December 2005 (NCDC DSI-3211)
  - b = Belarus update
  - C = Environment Canada
  - E = European Climate Assessment and Dataset (Klein Tank et al., 2002)
  - F = U.S. Fort data
  - G = Official Global Climate Observing System (GCOS) or other government-supplied data
  - H = High Plains Regional Climate Center real-time data
  - I = International collection (non U.S. data received through personal contacts)
  - K = U.S. Cooperative Summary of the Day data digitized from paper observer forms (from 2011 to present)
  - M = Monthly METAR Extract (additional ASOS data)
  - N = Community Collaborative Rain, Hail, and Snow (CoCoRaHS)
  - Q = Data from several African countries that had been "quarantined", that is, withheld from public release until permission was granted from the respective meteorological services
  - R = NCDC Reference Network Database (Climate Reference Network and Historical Climatology Network-Modernized)
  - r = All-Russian Research Institute of Hydrometeorological Information-World Data Center
  - S = Global Summary of the Day (NCDC DSI-9618)
- NOTE: "S" values are derived from hourly synoptic reports exchanged on the Global Telecommunications System (GTS). Daily values derived in this fashion may differ significantly from "true" daily data, particularly for precipitation(i.e., use with caution).
- s = China Meteorological Administration/National Meteorological Information Center/Climate Data Center (<http://cdc.cma.gov.cn>)
  - T = SNOwpack TELeentry (SNOTEL) data obtained from the Western Regional Climate Center
  - U = Remote Automatic Weather Station (RAWS) data obtained from the Western Regional Climate Center
  - u = Ukraine update
  - W = WBAN/ASOS Summary of the Day from NCDC's Integrated Surface Data (ISD).
  - X = U.S. First-Order Summary of the Day (NCDC DSI-3210)
  - Z = Datzilla official additions or replacements
  - z = Uzbekistan update

#### **Table 4 (observation/value)**

Note: 9's in a field (e.g.9999) indicate missing data or data that has not been received.

The five core values are:

PRCP = Precipitation (mm or inches as per user preference, inches to hundredths on Daily Form pdf file)  
SNOW = Snowfall (mm or inches as per user preference, inches to tenths on Daily Form pdf file)  
SNWD = Snow depth (mm or inches as per user preference, inches on Daily Form pdf file)  
TMAX = Maximum temperature (Fahrenheit or Celsius as per user preference, Fahrenheit to tenths on Daily Form pdf file)  
TMIN = Minimum temperature (Fahrenheit or Celsius as per user preference, Fahrenheit to tenths on Daily Form pdf file)

The other values are:

ACMC = Average cloudiness midnight to midnight from 30-second ceilometer data (percent)  
ACMH = Average cloudiness midnight to midnight from manual observations (percent)  
ACSC = Average cloudiness sunrise to sunset from 30-second ceilometer data (percent)  
ACSH = Average cloudiness sunrise to sunset from manual observations (percent)  
AWND = Average daily wind speed (meters per second or miles per hour as per user preference)  
DAEV = Number of days included in the multiday evaporation total (MDEV)  
DAPR = Number of days included in the multiday precipitation total (MDPR)  
DASF = Number of days included in the multiday snowfall total (MDSF)  
DATN = Number of days included in the multiday minimum temperature (MDTN)  
DATX = Number of days included in the multiday maximum temperature (MDTX)  
DAWM = Number of days included in the multiday wind movement (MDWM)  
DWPR = Number of days with non-zero precipitation included in multiday precipitation total (MDPR)  
EVAP = Evaporation of water from evaporation pan (mm or inches as per user preference, or hundredths of inches on Daily Form pdf file)  
FMTM = Time of fastest mile or fastest 1-minute wind (hours and minutes, i.e., HHMM)  
FRGB = Base of frozen ground layer (cm or inches as per user preference)  
FRGT = Top of frozen ground layer (cm or inches as per user preference)  
FRTH = Thickness of frozen ground layer (cm or inches as per user preference)  
GAHT = Difference between river and gauge height (cm or inches as per user preference)  
MDEV = Multiday evaporation total (mm or inches as per user preference; use with DAEV)  
MDPR = Multiday precipitation total (mm or inches as per user preference; use with DAPR and DWPR, if available)  
MDSF = Multiday snowfall total (mm or inches as per user preference)  
MDTN = Multiday minimum temperature (Fahrenheit or Celsius as per user preference ; use with DATN)  
MDTX = Multiday maximum temperature (Fahrenheit or Celsius as per user preference ; use with DATX)  
MDWM = Multiday wind movement (miles or km as per user preference)  
MNPV = Daily minimum temperature of water in an evaporation pan (Fahrenheit or Celsius as per user preference)  
MXPV = Daily maximum temperature of water in an evaporation pan (Fahrenheit or Celsius as per user preference)

PGTM = Peak gust time (hours and minutes, i.e., HHMM)

PSUN = Daily percent of possible sunshine (percent)

SN\*# = Minimum soil temperature where \* corresponds to a code for ground cover and # corresponds to a code for soil depth (Fahrenheit or Celsius as per user preference)

Ground cover codes include the following:

0 = unknown

1 = grass

2 = fallow

3 = bare ground

4 = brome grass

5 = sod

6 = straw mulch

7 = grass muck

8 = bare muck

Depth codes include the following:

1 = 5 cm

2 = 10 cm

3 = 20 cm

4 = 50 cm

5 = 100 cm

6 = 150 cm

7 = 180 cm

SX\*# = Maximum soil temperature where \* corresponds to a code for ground

cover and # corresponds to a code for soil depth. See SN\*# for depth codes. (Fahrenheit or Celsius as per user preference)

THIC = Thickness of ice on water (inches or mm as per user preference)

TOBS = Temperature at the time of observation (Fahrenheit or Celsius as per user preference)

TSUN = Daily total sunshine (minutes)

WDF1 = Direction of fastest 1-minute wind (degrees)

WDF2 = Direction of fastest 2-minute wind (degrees)

WDF5 = Direction of fastest 5-second wind (degrees)

WDFG = Direction of peak wind gust (degrees)

WDFI = Direction of highest instantaneous wind (degrees)

WDFM = Fastest mile wind direction (degrees)

WDMV = 24-hour wind movement (km or miles as per user preference, miles on Daily Form pdf file)

WESD = Water equivalent of snow on the ground (inches or mm as per user preference)

WESF = Water equivalent of snowfall (inches or mm as per user preference)

WSF1 = Fastest 1-minute wind speed (miles per hour or meters per second as per user preference)

WSF2 = Fastest 2-minute wind speed (miles per hour or meters per second as per user preference)

WSF5 = Fastest 5-second wind speed (miles per hour or meters per second as per user preference)

WSFG = Peak guest wind speed (miles per hour or meters per second as per user preference)

WSFI = Highest instantaneous wind speed (miles per hour or meters per second as per user preference)

WSFM = Fastest mile wind speed (miles per hour or meters per second as per user preference)

WT\*\* = Weather Type where \*\* has one of the following values:

- 01 = Fog, ice fog, or freezing fog (may include heavy fog)
- 02 = Heavy fog or heaving freezing fog (not always distinguished from fog)
- 03 = Thunder
- 04 = Ice pellets, sleet, snow pellets, or small hail
- 05 = Hail (may include small hail)
- 06 = Glaze or rime
- 07 = Dust, volcanic ash, blowing dust, blowing sand, or blowing obstruction
- 08 = Smoke or haze
- 09 = Blowing or drifting snow
- 10 = Tornado, waterspout, or funnel cloud
- 11 = High or damaging winds
- 12 = Blowing spray
- 13 = Mist
- 14 = Drizzle
- 15 = Freezing drizzle
- 16 = Rain (may include freezing rain, drizzle, and freezing drizzle)
- 17 = Freezing rain
- 18 = Snow, snow pellets, snow grains, or ice crystals
- 19 = Unknown source of precipitation
- 21 = Ground fog
- 22 = Ice fog or freezing fog

WVxx = Weather in the Vicinity where “xx” has one of the following values

- 01 = Fog, ice fog, or freezing fog (may include heavy fog)
- 03 = Thunder
- 07 = Ash, dust, sand, or other blowing obstruction
- 18 = Snow or ice crystals
- 20 = Rain or snow shower

Additional details are available online at <http://www1.ncdc.noaa.gov/pub/data/ghcn/daily/readme.txt> (note the readme file does not apply to the Daily Form pdf file or CSV outputs, however values are the same, other than a few differences in units noted in table 4 above).